



SHEET 1 OF 2

Form PTO 1449 (Modified)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY DOCKET NO. 203515US77	SERIAL NO. 10/023,888
LIST OF REFERENCES CITED BY APPLICANT		APPLICANT William M. CANFIELD	
		FILING DATE December 21, 2001	GROUP 1652

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
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	AL						
	AM						
	AN						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION
					YES NO
	AO				
	AP				
	AQ				
	AR				

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

38	AS	Sasaki, K., et al., "Expression cloning of a novel alpha 2,3-sialyltransferase using lectin resistance selection. J. Biol. Chem., October 1993, Vol. 268, No. 30, pages 22782-22787	
38	AT	Michel, B., et al., "Selection of an expression host for human glucocerebrosidase: importance of host cell glycosylation. UCLA Symposia on Molecular and Cellular Biology, 1990, Vol. 111 (Glycobiology), pages 159-172.	
38	AU	Stanley, P., et al., "Selection and characterization of eight phenotypically distinct lines of lectin-resistant chinese hamster ovary cells. Cell, October 1975, Vol. 6, No. 2, pages 121-128.	
duplicate PTO-1449 9/22/03, AS	AV	Zhao, K.W., et al., "Purification and Characterization of Human Lymphoblast N-acetylglucosamine-1-phosphotransferase. Glycobiol. 1992, Vol. 2, No. 2, pages 119-125	<input type="checkbox"/> Additional References sheet(s) attached

Examiner *S. Stoberry et al.*

Date Considered

*8/25/04*

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SHEET 2 OF 2

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LIST OF REFERENCES CITED BY APPLICANT		APPLICANT William M. CANFIELD					
		FILING DATE December 21, 2003		GROUP 1652			
<b>U.S. PATENT DOCUMENTS</b>							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	BA						
	BB						
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	BJ						
	BK						
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<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION		
	BO				YES	NO	
	BP						
	BQ						
	BR						
	BS						
	BT						
	BU						
	BV						
<b>OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)</b>							
<i>appr. cert. 1449 12/22/03, BLW</i>	BW	Mullis, K.G., Purification and Kinetic Parameters of Bovine Liver N-acetylglucosamine-1-phosphodiester alpha-N-acetylglucosaminidase. J. Biol. Chem., January 1994, Vol. 269, No. 3, pages 1718-1726.					
<i>SL</i>	BX	Do, H. et al., "Human Mannose 6-Phosphate-uncovering Enzyme is Synthesized as a Proenzyme that is Activated by the Endoprotease Furin. August 2002, J. Biol. Chem., Vol. 277, No. 33, pages 29737-29744.					
<i>33</i>	BY	Lee, W.S., "Multiple Signals Regulate Trafficking of the Mannose 6-Phosphate-uncovering Enzyme", February 2002, Vol. 277, No. 5, pages 3544-3551					
	BZ						
<input type="checkbox"/> Additional References sheet(s) attached							
Examiner <i>E. Slobodycreeley</i>	Date Considered <i>8/25/04</i>						
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FEB 21 2002 PATENT & TRADEMARK OFFICE				FILING DATE December 21, 2001	GROUP 1602
U.S. PATENT DOCUMENTS					
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS 800 14
ES	AA	6,118,045	09/12/045	REUSER ET AL	435 7,32
	AB	5,939,279	08/17/99	SMITH <i>et al</i>	424 94-6
	AC	5,932,211	08/03/99	WILSON ET AL	514 25
	AD	5,929,036	07/27/99	McEVER	435 201
	AE	5,928,928	07/27/99	AERTS	530 395
	AF	5,919,913	07/06/99	NUYENS ET AL	435 208
	AG	5,919,690	07/06/99	KNAP ET AL	800 18
CD	AH	5,917,122	06/29/99	BYRNE	514 928
	AI	5,916,911	06/29/99	SHAYMAN EET AL	514 2
	AJ	5,916,870	06/29/99	LEE ET AL	435 6
	AK	5,914,231	06/22/99	HENNINK ET AL	514 1
	AL	5,912,146	06/15/99	NISHIMURA ET AL	604 93,01
	AM	5,911,704	06/15/99	HUMES	424 93,21
ES	AN	5,906,817	05/25/99	MOULLIER ET AL	
FOREIGN PATENT DOCUMENTS					
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	AO				
	AP				
	AQ				
	AR				
	AS				
	AT				
	AU				
	AV				
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)					
ES	AW	Alan D. Elbein et al, "KIFUNENSINE, A POTENT INHIBITOR OF THE GLYCOPROTEIN PROCESSING MANNOSIDASE I", The Journal of Biological Chemistry, Vol. 265, No. 26, Issue of September 15, pp. 15599-15605, 1990.			
ES	AX	SLY, "The Missing Link in Lysosomal Enzyme Targeting", The Journal of Clinical Investigation, Vol. 105, No. 5, Pages 563-564, March 2000			
ES	AY	Raas-Rothschild et al., "Molecular Basis of Variant Pseudo-Hurler Polydystrophy (Mucolipidosis IIIC)", The Journal of Clinical Investigation, Vol. 105, No. 5, pp. 673-681, March 2000			
ES	AZ	Bao et al., "Bovine Udp-N-Acetylglucosamine: Lysosomal-Enzyme N-Acetylglucosamine-1- Phosphotransferase", The Journal of Biological Chemistry, Vol. 271, No. 49, pp. 31446-31451, December 6, 1996			
Examiner	<i>E. Slobodchayesky</i>			Date Considered	<i>4/16/03</i>
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.					

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LIST OF REFERENCES CITED BY APPLICANT		CITE		APPLICANT		William M. CANFIELD	
				FILING DATE		DECEMBER 21, 2001	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	TRADEMARK	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
ES	BA	5,895,833	04/20/99	BERG	800	14	
	BB	5,879,937	03/09/99	RONCAROLO	435	235	
	BC	5,874,297	02/23/99	WU ET AL	435	320,1	
	BD	5,871,946	02/16/99	LUCAS ET AL	435	18	
	BE	5,861,491	01/19/99	NUIJENS ET AL	530	417	
CD	BF	5,858,755	01/12/99	LOWE	435	198	
	BG	5,858,744	01/12/99	BAUM ET AL	435	456	
CM	BH	5,858,351	01/12/99	PODSAKOFF ET AL	424	93,2	
91	BI	5,854,207	12/29/98	LEE ET AL	514	2	
	BJ	5,851,782	12/22/98	HANNUN ET AL	430	7,71	
	BK	5,849,885	12/15/98	NUYENS ET AL	530	416	
	BL	5,840,578	11/24/98	DESNICK <i>et al</i>	435	235	
	BM	5,830,916	11/03/98	HANNUN ET AL	514	625	
	BN	5,830,850	11/03/98	GELB ET AL	514	2	
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	BO						
	BP						
	BQ						
	BR						
	BS						
	BT						
	BU						
	BV						
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
ES 8/25/04	BW	KORNFIELD, "Purification and Multimeric Structure of Bovine N-Acetylglucosamine-1-Phosphodiester $\alpha$ -N-Acetylglucosaminidase", The Journal of Biological Chemistry, Vol. 273, No. 36, pp. 23203-23210, September 4, 1998					
	BX						
	BY						
	BZ						
Examiner	<i>E. Slobodkyacsday</i>					Date Considered <i>6/16/09</i>	
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LIST OF REFERENCES CITED BY APPLICANT		APPLICANT		William M. CANFIELD			
		FILING DATE		December 21, 2001		GROUP <u>1652</u>	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	TRADEMARK	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
<u>29</u>	CA	5,830,711		11/03/98 BARANY ET AL	<u>435</u>	<u>91.1</u>	
	CB	5,807,943		09/15/98 LEE ET AL	<u>526</u>	<u>282.2</u>	
	CC	5,798,448		08/25/98 CARAS ET AL	<u>530</u>	<u>387.1</u>	
	CD	5,798,239		08/25/98 WILSON ET AL	<u>435</u>	<u>183</u>	
	CE	5,792,647		08/11/98 ROSEMAN ET AL	<u>435</u>	<u>252.3</u>	
	CF	5,773,236		06/30/98 DIWU ET AL	<u>435</u>	<u>15</u>	
	CG	5,759,775		06/02/98 CARAS ET AL	<u>435</u>	<u>6</u>	
	CH	5,750,172		05/12/98 MEADE ET AL	<u>426</u>	<u>580</u>	
	CI	5,741,957		04/21/98 DEBOER ET AL	<u>800</u>	<u>7</u>	
	CJ	5,736,360		04/07/98 GAULTON ET AL	<u>435</u>	<u>69.1</u>	
	CK	5,728,381		03/17/98 WILSON ET AL	<u>424</u>	<u>94.6</u>	
	CL	5,723,585		03/03/98 BAKER ET AL	<u>530</u>	<u>413</u>	
	CM	5,721,367		02/24/98 KAY ET AL	<u>800</u>	<u>18</u>	
	CN	5,719,031		02/17/98 HAUGLAND ET AL	<u>435</u>	<u>7.4</u>	
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	CO						
	CQ						
	CR						
	CS						
	CT						
	CU						
	CV						
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
	CW						
	CX						
	CY						
	CZ						
Examiner	<u>E. Slobodkey</u>				Date Considered <u>4/16/02</u>		
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LIST OF REFERENCES CITED BY APPLICANT				APPLICANT William M. CANFIELD			
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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
8	DA	5,716,614	02/10/98	KATZ ET AL	424	99.3	
	DB	5,707,865	01/13/98	KOHN ET AL	438	325	
CD	DC	5,704,910	01/06/98	HUMES	604	502	
	DD	5,696,001	12/09/97	HABENSTEIN	436	518	
	DE	5,693,622	12/02/97	WOLFF ET AL	514	44	
	DF	5,691,181	11/25/97	LOWE	435	325	
	DG	5,686,240	11/11/97	SCHUCHMAN ET AL	435	6	
	DH	5,679,545	10/21/97	BAKER ET AL	435	69.1	
	DI	5,665,366	09/09/97	RAWLINGS ET AL	424	401	
	DJ	5,663,254	09/02/97	LEE ET AL	526	238.2	
	DK	5,663,076	09/02/97	ROSTOKER ET AL	438	14	
	DL	5,658,567	08/19/97	CALHOUN ET AL	424	94.6	
	DM	5,648,335	07/15/97	LEWIS ET AL	514	12	
	DN	5,648,229	07/15/97	HABENSTEIN	435	18	
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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
	DW						
	DX						
	DY						
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Examiner	E. Slobodcikovsky				Date Considered 4/16/03		

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Form PTO 1449  
(Modified)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY DOCKET NO.  
203515US77SERIAL NO.  
10/023,888

LIST OF REFERENCES CITED BY APPLICANT

APPLICANT

William M. CANFIELD

FILING DATE

December 21, 2001

GROUP

1652

FEB 21 2002

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
2	EA 5,639,939	06/17/97	McCUNE, III	800	11	
	EB 5,639,607	06/17/97	DESNICK ET AL	435	6	
	EC 5,633,261	05/27/97	DIME	514	299	
	ED 5,633,228	05/27/97	LEWIS ET AL	514	12	
	EE 5,627,171	05/06/97	PARK ET AL	514	114	
	EF 5,627,073	05/06/97	BAKER ET AL	435	331	
	EG 5,624,806	04/29/97	BAKER ET AL	435	7.1	
	EH 5,621,106	04/15/97	DIME	546	183	
	EI 5,612,206	03/18/97	VALERIO ET AL	435	456	
	EJ 5,585,247	12/17/96	HABENSTEIN	435	18	
	EK 5,583,160	12/10/96	IGARASHI ET AL	514	669	
V	EL 5,578,479	11/26/96	LADERMAN ET AL	435	202	
20	EM 5,576,424	11/19/96	MAO ET AL	536	17.9	
	EN 5,571,893	11/05/96	BAKER ET AL	530	350	

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES	NO
EO					
EP					
EQ					
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ES					
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EU					
EV					

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

EW	
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EZ	

Examiner

S. Slobojacek

Date Considered

4/16/03

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				FILING DATE December 21, 2001	GROUP 1652	
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS
S	FA	5,571,675	11/05/96	BAKER ET AL	435	6
	FB	5,569,648	10/29/96	LEWIS ET AL	574	12
	FC	5,565,362	10/15/96	ROSEN	435	320.1
	FD	5,554,366	09/10/96	RAWLINGS ET AL	424	78.03
	FE	5,545,402	08/13/96	WATKINSON	424	94.63
	FF	5,534,615	07/09/96	BAKER ET AL	530	380
	FG	5,512,471	04/30/96	SMITH	435	208
	FH	5,501,957	03/26/96	DENNIS ET AL	435	15
	FI	5,494,810	02/27/96	BARANY ET AL	435	91.52
	FJ	5,491,075	02/13/96	DESNICK ET AL	435	69.7
	FK	5,475,095	12/12/95	MYEROWITZ	536	23.1
	FL	5,466,809	11/14/95	DIME	546	183
	FM	5,449,604	09/12/95	SCHELLENBERG ET AL	435	6
	FN	5,443,986	08/22/95	HAUGHLAND ET AL	435	4
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	FX					
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Examiner	<i>S. Slobodzianek</i>			Date Considered <i>4/16/03</i>		
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				FILING DATE December 21, 2001	GROUP 1602	
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS
3J	GA	5,439,935	08/08/95	RAWLINGS ET AL	514	435 451
	GB	5,433,946	07/18/95	ALLEN, JR. ET AL	424	94,3
	GC	5,420,112	05/30/95	LEWIS ET AL	514	12
	GD	5,405,751	04/11/95	RONCAROLO	435	7,24
	GE	5,382,524	01/17/95	DESNICK ET AL	435	200
	GF	5,366,883	11/22/94	ASADA ET AL	435	202
	GG	5,362,628	11/08/94	HAUGLAND	435	18
	GH	5,344,352	09/06/94	HORNE ET AL	445	24
	GI	5,316,906	05/31/94	HAUGLAND ET AL	435	4
	GJ	5,310,646	05/10/94	WHITLEY	435	4
	GK	5,296,365	03/22/94	OVERBEEKE ET EA	435	208
	GL	5,281,394	01/25/94	HOLUB	422	65
	GM	5,260,447	11/09/93	NAKAJIMA ET AL	548	222
	GN	5,242,805	09/07/93	NALEWAY ET AL	435	18
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Examiner	S. Vobodaynly			Date Considered	2/13/02	
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U.S. PATENT DOCUMENTS					
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ED	HA	5,217,865	01/08/93	MYEROWITZ	435 6
	HB	5,208,148	05/04/93	HAUGLAND ET AL	435 14
	HC	5,205,917	04/27/93	KLOCK, JR.	436 506
	HD	5,179,023	01/12/93	CALHOUN ET AL	435 235.1
	HE	5,166,320	11/24/92	WU ET AL	530 395
	HF	5,143,841	09/01/92	HIRABAYASHI ET AL	435 227
	HG	5,126,247	06/30/92	PALMER ET AL	435 25
	HH	5,089,392	02/18/92	MILLER ET AL	435 21
	HI	5,002,778	01/21/92	OVERBEEKE ET AL	435 208
	HJ	5,077,200	12/31/91	HABENSTEIN	435 14
ED	HK	5,075,231	12/24/91	MOREAU ET AL	435 198
	HL	5,064,025	10/29/91	MATTEI ET AL	
ED	HM	5,060,428	10/29/91	ARTHUR, JR. ET AL	52 125.6
ED	HN	5,015,470	05/14/91	GIBSON	514 2
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		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES      NO
HO					
HP					
HQ					
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HS					
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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)					
	HW				
	HX				
	HY				
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Examiner	E. Stobayareski			Date Considered	4/16/03
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LIST OF REFERENCES CITED BY APPLICANT		O P E FEB 21 2002 U.S. PATENT & TRADEMARK OFFICE		APPLICANT William M. CANFIELD			
				FILING DATE December 21, 2001	GROUP 165		
U.S. PATENT DOCUMENTS							
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SJ	IA	5,001,072	03/19/91	OLSON			
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	ID	4,986,274	01/22/91	STEPHENS			
	IE	4,981,801	01/01/91	SUZUKI ET AL			
	IF	4,975,441	12/04/90	GIBSON			
	IG	4,866,042	09/12/89	NEUWELT			
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	II	4,798,169	01/17/89	ROSEN ET AL			
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	IT						
	IU						
	IV						
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
	IW						
	IX						
	IY						
	IZ						
Examiner	S. Shobdyashe				Date Considered	4/16/03	

\*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. 203515US77	SERIAL NO. 10/023,888		
LIST OF REFERENCES CITED BY APPLICANT				APPLICANT William M. CANFIELD			
FEB 21 2002 PATENT & TRADEMARK OFFICE				FILING DATE December 21, 2001	GROUP 1682		
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
ED	JA	4,496,722	01/29/85	GALLOP ET AL			
	JB	4,492,761	01/08/85	DURACK			
	JC	4,474,770	10/02/84	LORMEAU ET AL			
	JD	4,452,794	06/05/84	KORT ET AL			
	JE	4,433,946	02/28/84	CHRISTIANSON ET AL			
	JF	4,431,737	02/14/84	OLIVIERI ET AL			
	JG	4,401,758	08/30/83	LORMEAU ET AL			
	JH	4,401,662	08/30/83	LORMEAU ET AL			
	JI	4,332,894	06/01/82	WHISTLER			
	JJ	4,328,215	05/04/82	BUEDING			
	JK	4,195,126	12/23/80	HALL			
	JL	4,156,013	03/22/79	BRUINVELS ET AL			
	JM	4,140,107	02/20/79	LANCEE ET AL			
	JN	3,972,777	08/03/76	YAMADA ET AL			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES	NO	
	JO						
	JP						
	JQ						
	JR						
	JS						
	JT						
	JU						
	JV						
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
	JW						
	JX						
	JY						
	JZ						
Examiner	<i>E. Stobdyawski</i>			Date Considered <i>4/16/03</i>			
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. 203515US77	SERIAL NO. 10/023,888		
LIST OF REFERENCES CITED BY APPLICANT				APPLICANT William M. CANFIELD			
O I P E FEB 21 2002 P A T E N T & T R A D E M A R K O F F I C E 63				FILING DATE December 21, 2001	GROUP 1652		
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	TRADE DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
SR	AA	3,966,555	06/29/76	ARNAUD ET AL	↑	↑	
	AB	3,957,578	05/18/76	NARITA ET AL			
	AC	RE35,770	04/14/98	LORMEAU ET AL			
	AD	5,773,278	06/30/98	SCHUCHMAN ET AL			
	AE	5,798,366	08/25/98	PLATT ET AL			
	AF	5,635,383	06/03/97	WU ET AL			
	AG	5,968,502	10/19/99	TRECO ET AL			
	AH	5,055,401	10/08/91	LILJESTROEM ET AL			
	AI	5,202,253	04/13/93	ESMON ET AL			
	AJ	5,929,304	07/27/99	RADIN ET AL			
	AK	5,580,757	12/03/96	DESNICK ET AL			
	AL	5,356,804	10/18/94	DESNICK ET AL			
	AM	5,401,650	03/28/95	DESNICK ET AL	✓	✓	
	AN						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES	NO	
	AO						
	AP						
	AQ						
	AR						
	AS						
	AT						
	AU						
	AV						
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
	AW						
	AX						
	AY						
	AZ						
Examiner	<i>E. S. Wood/yaesky</i>				Date Considered	<i>4/18/03</i>	
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							